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Program		
	Solenoidal Tracker at RHIC	
Sub program		
	Time Projection Chamber - Assembly and Test	
Title		
	Weight of TPC and TPC Supported Hardware	

Introduction:

The following table contains the weight of the Time Projection Chamber's (TPC) components, TPC supported hardware and detector subsystems. The weight categories correspond to various phases of the TPC's construction and installation. Max LBNL was the weight during transcontinental shipping, Max BNL Lift is the weight at the time of installation into the STAR Magnet, Installed Wt. W/CTB is the weight with all 120 CTB modules mounted, Installed Wt. W/TOF assumes all Central Trigger Barrel modules have been replaced with Time of Flight modules. The basis for the weights shown is listed in the right hand column. Where the weight of an item is a significant portion of the total, either a detailed accounting of the volume and density of its constituents or direct measurement was used.

Weight of TPC (lb.)										
item	Max LBNL	Max BNL	Installed Wt.	Installed Wt.	Basis					
		Lift	w/ CTB	w/ TOF						
IFC	107	107	107	107	close est					
OFC	4991	4991	4991	4991	close est					
Wheel	3100	3100	3100	3100	measured					
Wheel Brkts/Adj	227	227	227	227	rough est					
TOF rails	1080	1080	1080	1080	exact					
Outer Sectors	2520	2520	2520	2520	measured					
Inner Sectors	1752	1752	1752	1752	close est 75# ea,					
Gas Manifolds at wheel	0	0	200	200	removed for lift					
FEE	128	1539	1539	1539	measured					
FEE Manifolds	480	480	480	480	rough					
RDO	51	607	607	607	close est.					
RDO manifolds	15	360	360	360	rough					
RDO/FEE Cable	39	468	468	468	close est					
Dist Manif/hose	240	390	390	390	rough					
CTB modules (120 ea.)	0	660	3960	0	measured/ 33# ea.					
TOF modules (120 ea.)	0	0	0	4800	Est, G.Mutchler 9/98					
TOF cables/hose	0	0	240	240	rough					
RDO elect. brkts	24	24	24	24	rough					
SVT, Cone Assy &SSD	0	0	365	365	Mech Des Rev 3/98					
FTPC	0	0	809	809	FDR action item 1					
TOTAL	14753	18304	22409	23249						

Notes:

TPC partially populated with CTB (20 of 120) at initial installation